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NPIC/R-58/65

March 1965

PHOTOGRAPHIC INTERPRETATION REPORT

GOA MISSILE, MOSCOW PARADE 7 NOVEMBER 1964

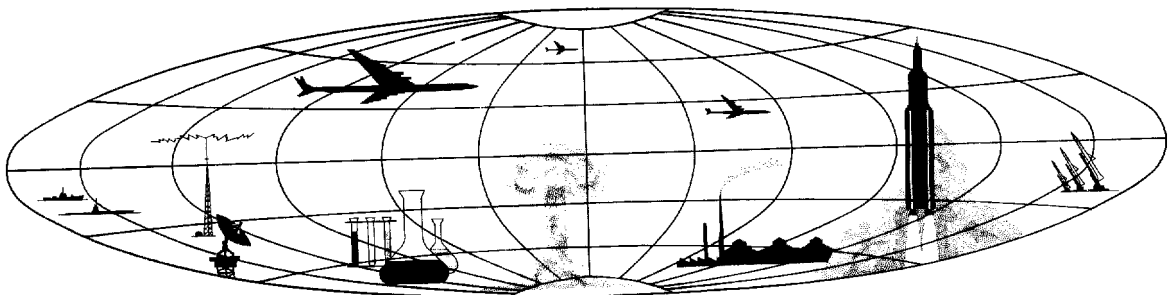


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PREFACE

This report is in response to CIA requirement C-SI4-82,030 requesting mensuration and line drawings of the GOA missile and its transporter.

The mensural data contained in this report were obtained from photographic graphical solutions coupled with scaling and ratio techniques. Because of the geometrical problems involved in mensural analysis of oblique ground photography, some degree of error is inherent. The reader is cautioned that, while in many instances dimensions are carried [REDACTED] accuracy is not that reliable. The following is a general guideline in determining what degree of confidence can be placed in the data.

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Dimension Given	Degree of Accuracy
[REDACTED]	[REDACTED]

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The reader is further cautioned that the graphics presented with the accompanying mensural data are not intended to be used for detailed engineering analysis.

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photography of the 7 November 1964 Moscow parade revealed 4 transporters carrying 2 SA-3 GOA missiles--the first such missiles to be publicly displayed. They bore serial numbers 745203, 422556, 222050, 450007, 334005, 447752, 555700, and 557440. Photographs and detailed line drawings with complete mensural data are shown on the following pages (Figures 1-7).

The SA-3 GOA is a 2-stage missile with an overall length of [REDACTED]. The first stage, or booster, is [REDACTED] long, with the main portion of its cylinder being [REDACTED] in diameter but the nozzle end tapered to [REDACTED]. The booster has 4 generally rectangular fins positioned on a 45-degree axis to the missile centerline. Each fin measures approximately [REDACTED] by [REDACTED] and is [REDACTED] in area. As displayed on the transporter, the longer side parallels the

booster body; however, the pivot union of the fin to the booster body and the design of the rear of each fin, shown clearly in Figure 7, indicate that the position of the fins changes for flight, during which the longer side is perpendicular to the body.

The second stage, consisting of sustainer and warhead, is [REDACTED] in length, and the widest portion of the cylinder is [REDACTED] in diameter. The sustainer has 2 sets of 4 fins, the smaller, forward ones each with a surface area of [REDACTED] and designed to pivot on a control-fin shaft protruding from the sustainer. The 4 rear fins on the sustainer are each [REDACTED] in area. An appendage on the outer edge, possibly an antenna, measures [REDACTED] in length and [REDACTED] in diameter. Two of the fins have aileron control surfaces, each [REDACTED]



FIGURE 1. SA-3 GOA MISSILES ON PARADE.

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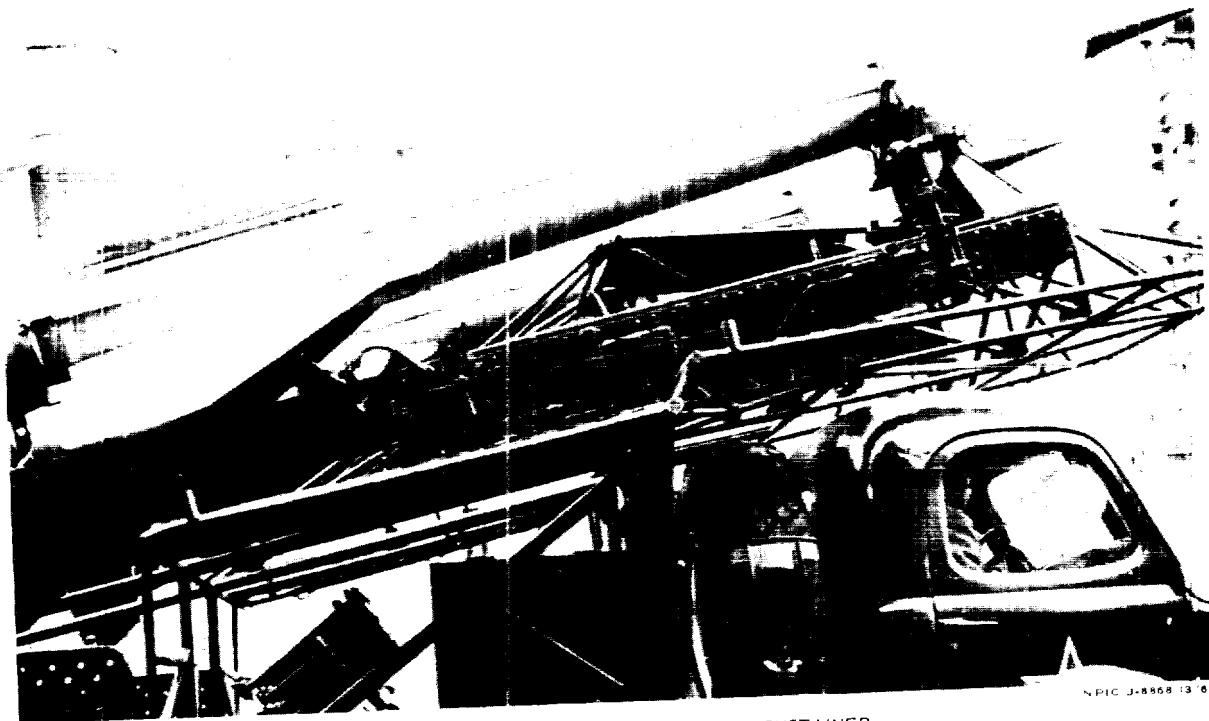
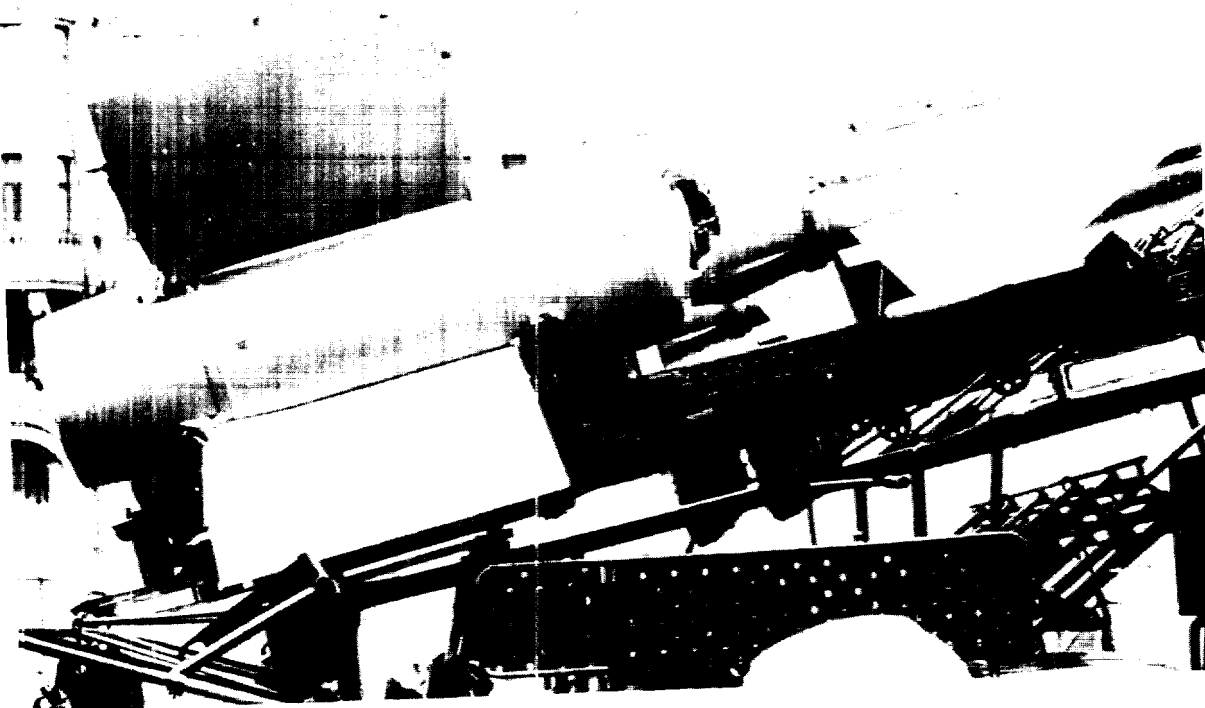


FIGURE 2. SIDE VIEWS OF BOOSTER AND SUSTAINER.

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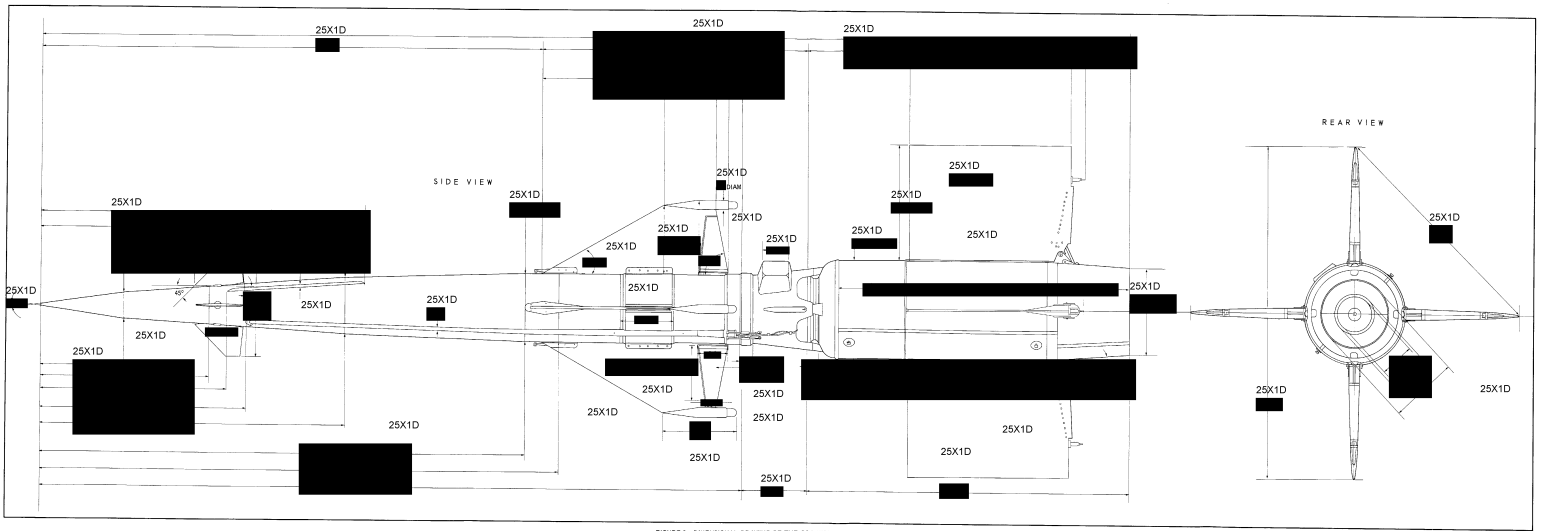


FIGURE 3. DIMENSIONAL DRAWING OF THE GDA MISSILE.

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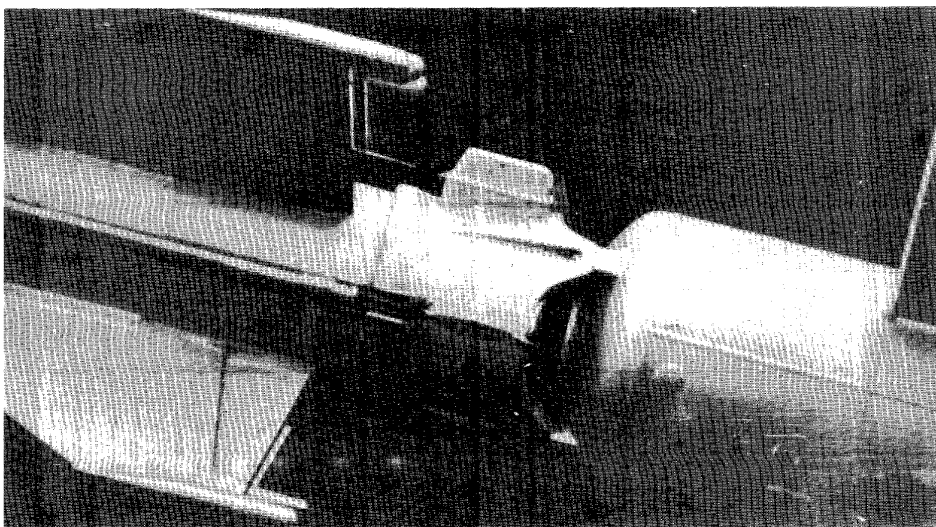
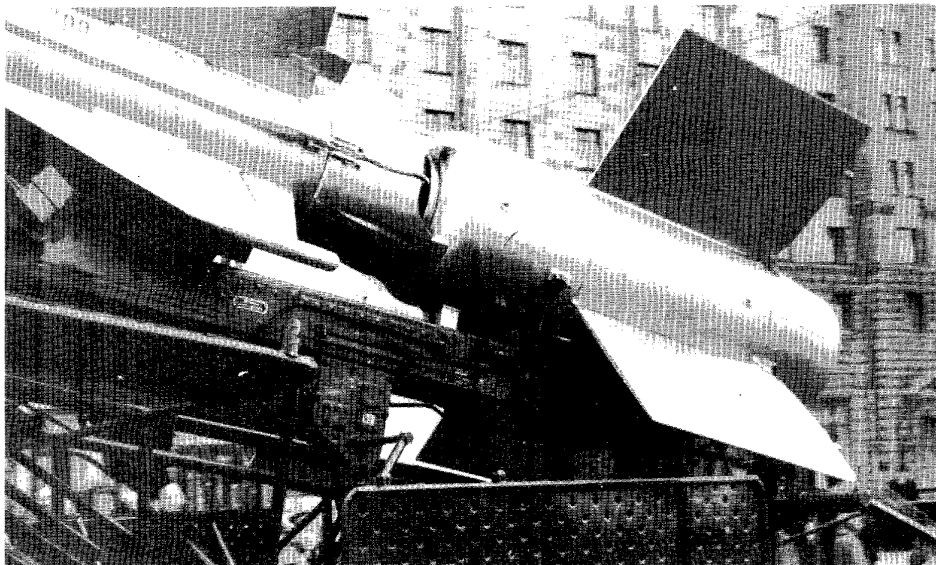


FIGURE 4. DETAILS OF THE MISSILE.

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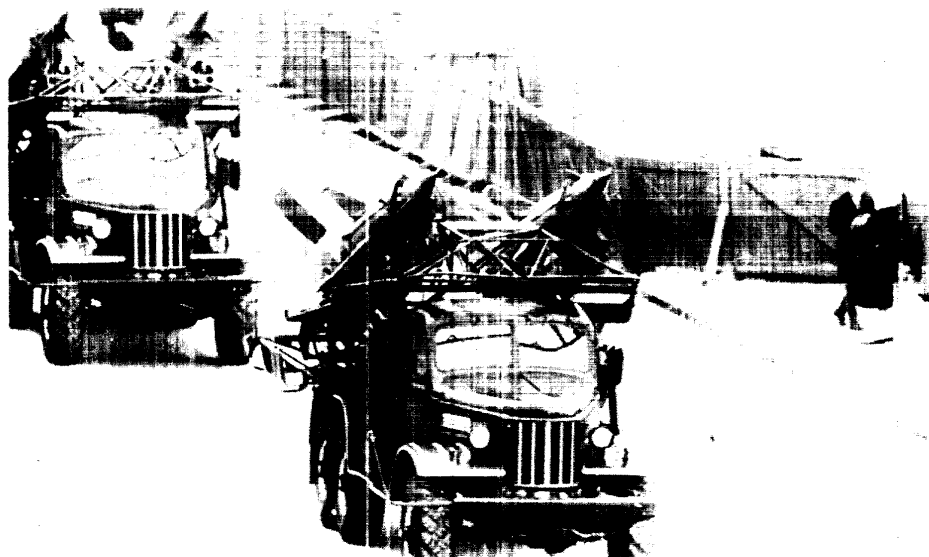
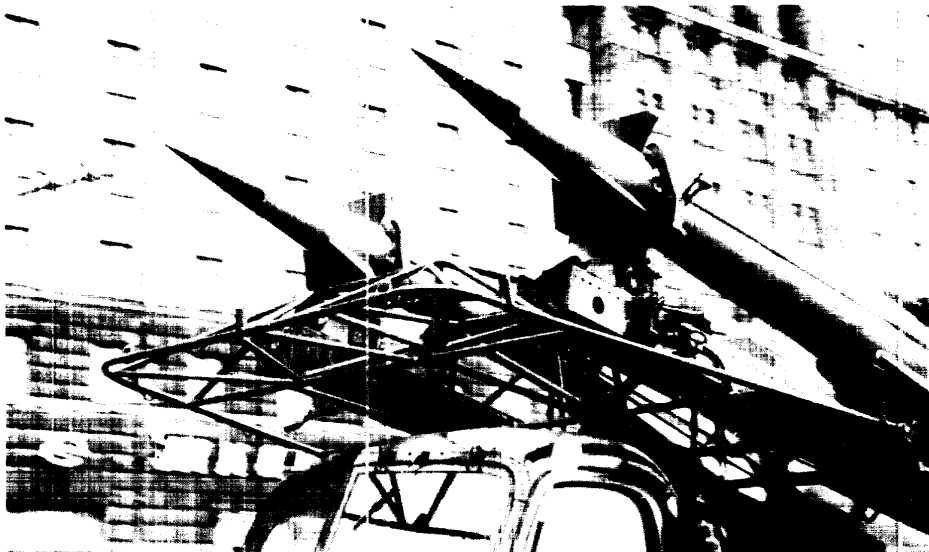


FIGURE 1. THE GOA ON TRANSPORTER

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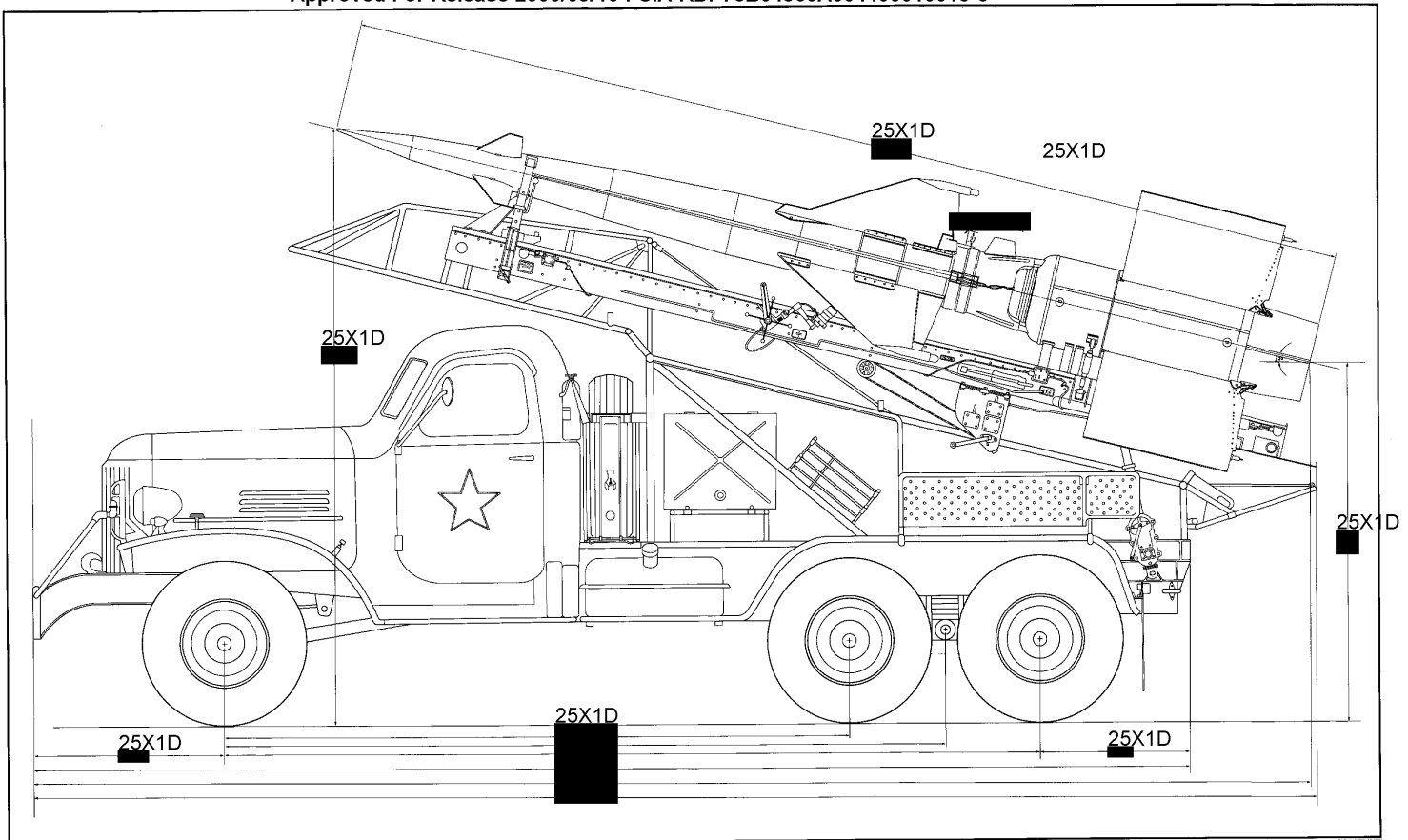


FIGURE 6. DIMENSIONAL DRAWING OF THE GOA BEING TRANSPORTED.

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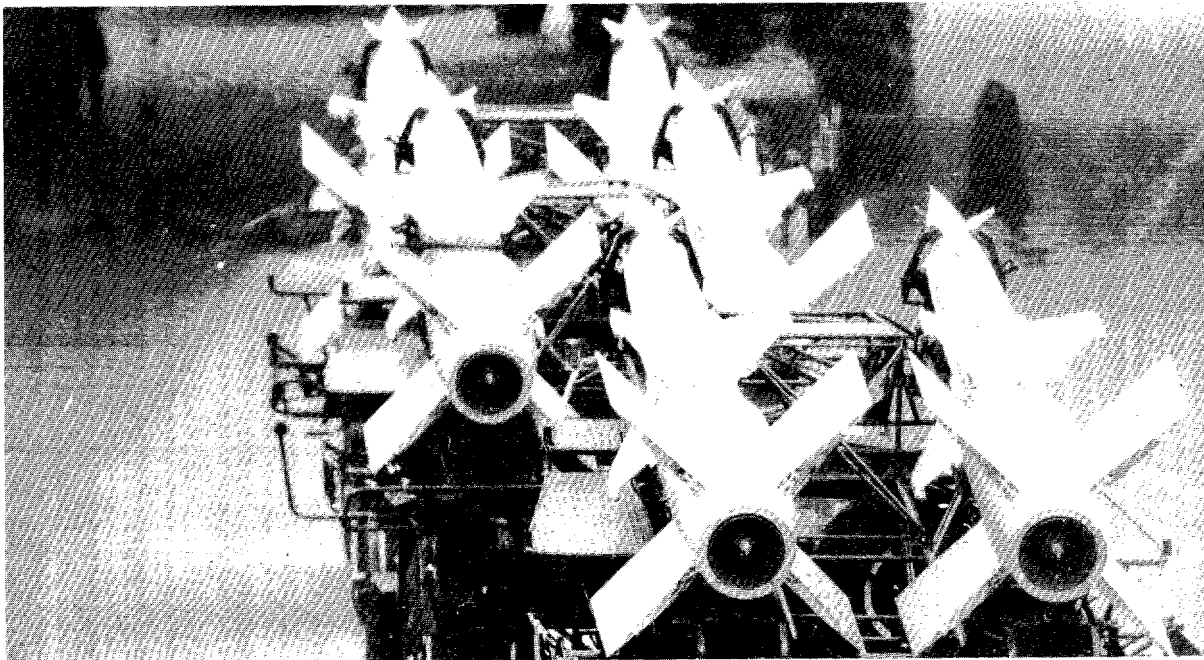


FIGURE 7. REAR VIEW OF GOA MISSILES.

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in area, and the alternate fins each has a fixed tab in area (Figure 4).

The transporter is a ZIL-157 truck tractor which has been modified to transport 2 GOA missiles but not to launch them. Overall length of the transporter with missiles emplaced is

maximum height is and maximum width is

The transporter has 2 rails, each one similar to the single rail on the transporter for the SA-2 GUIDELINE missile, and each rail supports

one missile. Separation of these rails to correspond to the dual rails of a GOA launcher, and layout of the inner service roads at SA-3 sites to allow turnout space near each launch position, indicate that the missiles are offloaded by backing the transporter to the front of the launcher, elevating the twin rails of the launcher to match the angle of the transporter rails, and sliding the missiles backward down the rails onto the launcher.

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REFERENCES

PHOTOGRAPHY

Selected photography of 7 November 1964 (SECRET,

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REQUIREMENT

CIA. C-SI4-82,030

NPIC PROJECT

11955/64 (partial answer)

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